

Poster Session III — Control Theory

When: June 4, 2014 13:00–14:00

Where: Colosseum

Chair: Daniel Petersson

1. **Distributed System Identification with ADMM**
Anders Hansson, Linköpings Universitet
Michel Verhaegen, Delft University
2. **Dual First-order Methods for Large-scale Convex Optimization**
Jie Lu, KTH
Mikael Johansson, KTH
3. **Network Clustering Algorithms for Traffic Planning**
Håkan Terelius, KTH
Karl Henrik Johansson, KTH
4. **Epidemic Information Discovery in Proximity-based Multichannel Wireless Networks**
Antonio Gonga, KTH - Royal Institute of Technology
Themistoklis Charalambous, KTH - Royal Institute of Technology
Mikael Johansson, KTH - Royal Institute of Technology
5. **Robust Synchronisation of Heterogeneous Networks via Integral Quadratic Constraints**
Sei Zhen Khong, Lund University
Enrico Lovisari, Lund University
6. **On Stability and Resilience of Multicommodity Dynamical Flow Networks**
Gustav Nilsson, Department of Automatic Control, Lund University
Giacomo Como, Department of Automatic Control, Lund University
Enrico Lovisari, Department of Automatic Control, Lund University
7. **Consensus Algorithms with Gyroscopic Feedback**
Sebastian van de Hoef, KTH, Royal Institute of Technology
Dimos V. Dimarogonas, KTH, Royal Institute of Technology
Panagiotis Tsiotras, Georgia Institute of Technology
8. **Shaping the Crowd Motion by Moments Control**
Yuecheng Yang, Royal Institute of Technology
Dimos Dimarogonas, Royal Institute of Technology
Xiaoming Hu, Royal Institute of Technology
9. **Crowd-sourcing Estimation with Strategic Senders**
Farhad Farokhi, KTH Royal Institute of Technology
Andre Teixeira, KTH Royal Institute of Technology
Cedric Langbort, University of Illinois at Urbana–Champaign (UIUC)
10. **On-line Multi-objective Optimization of Dynamic Systems: Pareto Seeking Control**
Khalid Atta, Luleå tekniska universitet-LTU
Andreas Johansson, Luleå tekniska universitet-LTU
Thomas Gustafsson, Luleå tekniska universitet-LTU

11. **Parallel Riccati Factorizations with Applications to Model Predictive Control**
Isak Nielsen, Linköpings Universitet
Daniel Axehill, Linköpings Universitet
12. **Look-ahead Control for Fuel-efficient Heavy-duty Vehicle Platooning**
Valerio Turri, ACCESS Linnaeus Centre and Department of Automatic Control, KTH Royal Institute of Technology
Bart Besselink, ACCESS Linnaeus Centre and Department of Automatic Control, KTH Royal Institute of Technology
Jonas Mårtensson, ACCESS Linnaeus Centre and Department of Automatic Control, KTH Royal Institute of Technology
Karl H. Johansson, ACCESS Linnaeus Centre and Department of Automatic Control, KTH Royal Institute of Technology
13. **Balanced Truncation Preserving Ellipsoidal Cone Invariance**
Christian Grussler, Department of Automatic Control, Lund University
Anders Rantzer, Department of Automatic Control, Lund University
14. **Model Reduction of Networked Passive Systems by Clustering**
Bart Besselink, KTH Royal Institute of Technology
Henrik Sandberg, KTH Royal Institute of Technology
Karl Henrik Johansson, KTH Royal Institute of Technology
15. **Optimization-based Modeling of LPV Systems using a Frequency-limited H_2 -objective**
Daniel Petersson, Linköpings Universitet
Johan Löfberg, Linköpings Universitet
16. **Analysis of Extremum Seeking Control using Bifurcation Theory**
Olle Trollberg, KTH Royal Institute of Technology
Elling Jacobsen, KTH Royal Institute of Technology
17. **Sensor Placement for Fault Detection and Isolation in Noisy Systems**
Daniel Eriksson, Department of Electrical Engineering, Linköping University, Sweden
Yi Dong, Institute for Software Integrated Systems, Vanderbilt University, USA
Erik Frisk, Department of Electrical Engineering, Linköping University, Sweden
Mattias Krysanter, Department of Electrical Engineering, Linköping University, Sweden
Gautam Biswas, Institute for Software Integrated Systems, Vanderbilt University, USA
18. **Hybrid State Observer for Time-delay Systems under Intrinsic Impulsive Feedback**
Diana Yamalova, Uppsala University
Alexander Churilov, St. Petersburg State University
Alexander Medvedev, Uppsala University
19. **Discretizing Stochastic Dynamical Systems using Lyapunov Equations**
Niklas Wahlström, Linköping university
Patrik Axelsson, Linköping university
Fredrik Gustafsson, Linköping university
20. **Friction Identification in Different Mechanical Systems**
Szabolcs Fodor, Department of Applied Physics and Electronics, Umeå University
Leonid Freidovich, Department of Applied Physics and Electronics, Umeå University
21. **Spurious Convergence of Iterative Learning Control**
M. Mahdi Ghazaei Ardakani, Department of Automatic Control, Lund University
Bo Bernhardsson, Department of Automatic Control, Lund University

22. **Towards a New Generation of Relay Autotuners**
Josefin Berner, Lund University
Karl Johan Åström, Lund University
Tore Hägglund, Lund University
23. **Control of an Industrial Hydraulic System: Partial Stability Approach**
Carlos Vázquez, Department of Applied Physics and Electronics, Umeå University
Stanislav Aranovskiy, Department of Control Systems and Informatics, ITMO University
Leonid Freidovich, Department of Applied Physics and Electronics, Umeå University
24. **Time-varying Gain Differentiator: High-gain and Second Order Sliding Mode**
Carlos Vázquez, Department of Applied Physics and Electronics, Umeå University
Stanislav Aranovskiy, Department of Control Systems and Informatics, ITMO University
Leonid Freidovich, Department of Applied Physics and Electronics, Umeå University
25. **Control of Robotic Additive Manufacturing using a Resistance Process Model**
Petter Hagqvist, University West
Almir Heralić, GKN Aerospace Sweden AB
Anna-Karin Christiansson, University West